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PRODUCT DATASHEET

Anti-Complement C5b-9 Antibody

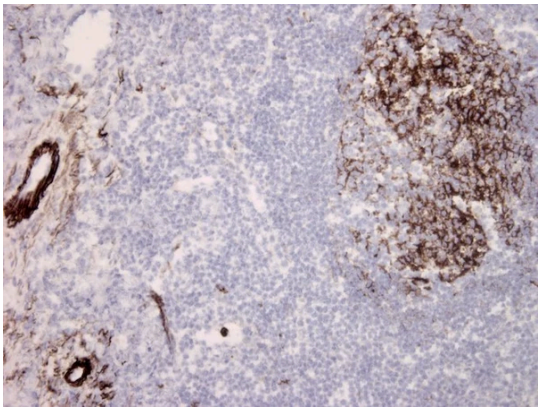
Product Details

Available Variants	100 uL (SKU:DIA 011-01-010) 400 uL (SKU:DIA 011-01-04) 1000 uL (SKU:DIA 011-01-1)
Conjugate	Unconjugated
Isotype	IgG2a/k
Clone	aE11
Gene Name	C5, C6, C7, C8, C9
Host Species	Mouse
Concentration	1 mg/mL ±15%
Format	Protein A or Protein G purified
Physical State	Liquid
Buffer	0.01 M phosphate buffer, pH 7.4, containing 0.15 M NaCl, 0,09% sodium azide
Production Notes	BSA free
Applications	ELISA, IF, IHC, WB
Species Reactivity	Horse, Human, Monkey
Immunogen	Purified C5b-9
Specificity	DIA 011-01 binds both membrane-bound MAC (active) and fluid-phase SC5b-9 complexes (inactive). (1) DIA 011-01 binds to a neoepitope exposed on C9
Storage	2-8°C without exposure to light
UniProt ID	P01031, P13671, P06681, P07357, P07358, P07360, P02749 UniProt Summary: Precursor of the C5a anaphylatoxin and complement C5b components of the complement pathways, which consist in a cascade of proteins that leads to phagocytosis and breakdown of pathogens and signaling that strengthens the adaptive immune system (PubMed:12878586, PubMed:18204047, PubMed:30643019, PubMed:6554279). Activated downstream of classical, alternative, lectin and GZMK complement pathways

(PubMed:12878586, PubMed:18204047, PubMed:30643019, PubMed:39914456, PubMed:39814882, PubMed:6554279). {ECO:0000269|PubMed:12878586, ECO:0000269|PubMed:18204047, ECO:0000269|PubMed:30643019, ECO:0000269|PubMed:39814882, ECO:0000269|PubMed:39914456, ECO:0000269|PubMed:6554279}.; [Complement C5b]: Component of the membrane attack complex (MAC), a multiprotein complex activated by the complement cascade, which inserts into a target cell membrane and forms a pore, leading to target cell membrane rupture and cell lysis (PubMed:26841837, PubMed:27052168, PubMed:30552328, PubMed:30643019). Complement C5b is generated following cleavage by C5 convertase and initiates formation of the MAC complex: C5b binds sequentially C6, C7, C8 and multiple copies of the pore-forming subunit C9 (PubMed:30552328, PubMed:30643019). During MAC complex assembly, the C5b6 subcomplex, composed of complement C5b and C6, associates with the outer leaflet of target cell membrane, reducing the energy for membrane bending (PubMed:30552328, PubMed:32569291). {ECO:0000269|PubMed:26841837, ECO:0000269|PubMed:27052168, ECO:0000269|PubMed:30552328, ECO:0000269|PubMed:30643019, ECO:0000269|PubMed:32569291}.; [C5a anaphylatoxin]: Mediator of local inflammatory process released following cleavage by C5 convertase (PubMed:8182049, PubMed:9553099). Acts by binding to its receptor (C5AR1 or C5AR2), activating G protein-coupled receptor signaling and inducing a variety of responses including intracellular calcium release, contraction of smooth muscle, increased vascular permeability, and histamine release from mast cells and basophilic leukocytes (PubMed:36806352, PubMed:37852260, PubMed:37169960, PubMed:8182049, PubMed:9553099). C5a is also a potent chemokine which stimulates the locomotion of polymorphonuclear leukocytes and directs their migration toward sites of inflammation (PubMed:342601, PubMed:37852260, PubMed:37169960, PubMed:5765461, PubMed:8182049, PubMed:9553099). {ECO:0000269|PubMed:342601, ECO:0000269|PubMed:36806352, ECO:0000269|PubMed:37169960, ECO:0000269|PubMed:37852260, ECO:0000269|PubMed:5765461, ECO:0000269|PubMed:8182049, ECO:0000269|PubMed:9553099}.

Country of Origin	United States
Shipping	Shipped on ice packs
Expiration	24 months from date of receipt
Usage Statement	These antibodies are to be used as research laboratory reagents and are not for use as diagnostic or therapeutic reagents in humans.
NCBI Gene ID	727

Product Images



Immunohistochemistry detection of Complement C5b-9 in human tonsil tissue using Anti-Complement C5b-9 Antibody (Cat.DIA 011-01-010). Tissue was mounted and pariffin fixed. Heat induced antigen retrieval was performed using citrate buffer, heated, and then blocked. After washing, the primary antibody (Cat.DIA 011-01-010) was incubated with the sample at a dilution of 1:10. Vascular endothelia and dendritic cells of germinal center have strong and intensive label.